

# Behzad Moshiri

## List of Publications by Citations

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126  
papers

1,458  
citations

21  
h-index

31  
g-index

155  
ext. papers

1,732  
ext. citations

3.1  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
126	Optimal control of a nonlinear fed-batch fermentation process using model predictive approach. <i>Journal of Process Control</i> , <b>2009</b> , 19, 1162-1173	3.9	98
125	A comparative assessment of multi-sensor data fusion techniques for freeway traffic speed estimation using microsimulation modeling. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 26, 33-48	8.4	63
124	H $\infty$ control of parameter-dependent state-delayed systems using polynomial parameter-dependent quadratic functions. <i>International Journal of Control</i> , <b>2005</b> , 78, 254-263	1.5	63
123	Forecasting of short-term traffic-flow based on improved neurofuzzy models via emotional temporal difference learning algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2012</b> , 25, 1022-1042	7.3	59
122	Fusing a Bluetooth Traffic Monitoring System With Loop Detector Data for Improved Freeway Traffic Speed Estimation. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , <b>2013</b> , 17, 152-164	3.2	50
121	Prediction of protein submitochondria locations based on data fusion of various features of sequences. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 269, 208-16	2.3	45
120	Haar Wavelet-Based Approach for Optimal Control of Second-Order Linear Systems in Time Domain. <i>Journal of Dynamical and Control Systems</i> , <b>2005</b> , 11, 237-252	1.1	45
119	A computational method for solving optimal control and parameter estimation of linear systems using Haar wavelets. <i>International Journal of Computer Mathematics</i> , <b>2004</b> , 81, 1121-1132	1.2	42
118	Anomaly detection using a self-organizing map and particle swarm optimization. <i>Scientia Iranica</i> , <b>2011</b> , 18, 1460-1468	1.5	40
117	Aggregation of web search engines based on users' preferences in WebFusion. <i>Knowledge-Based Systems</i> , <b>2007</b> , 20, 321-328	7.3	38
116	Weighted and constrained possibilistic C-means clustering for online fault detection and isolation. <i>Applied Intelligence</i> , <b>2011</b> , 35, 269-284	4.9	30
115	Numerically efficient approximations to the optimal control of linear singularly perturbed systems based on Haar wavelets. <i>International Journal of Computer Mathematics</i> , <b>2005</b> , 82, 495-507	1.2	29
114	Fracture detection from water saturation log data using a Fourier wavelet approach. <i>Journal of Petroleum Science and Engineering</i> , <b>2009</b> , 69, 129-138	4.4	28
113	A protein fold classifier formed by fusing different modes of pseudo amino acid composition via PSSM. <i>Computational Biology and Chemistry</i> , <b>2011</b> , 35, 1-9	3.6	28
112	A novel approach proposed for fractured zone detection using petrophysical logs. <i>Journal of Geophysics and Engineering</i> , <b>2009</b> , 6, 365-373	1.3	28
111	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. <i>IEEE Access</i> , <b>2020</b> , 8, 47522-47532	3.5	27
110	A GIS-based multi-criteria analysis model for earthquake vulnerability assessment using Choquet integral and game theory. <i>Natural Hazards</i> , <b>2017</b> , 87, 1377-1398	3	26

109	Trunk Motion System (TMS) Using Printed Body Worn Sensor (BWS) via Data Fusion Approach. <i>Sensors</i> , <b>2017</b> , 17,	3.8	26
108	Pseudo information measure: a new concept for extension of Bayesian fusion in robotic map building. <i>Information Fusion</i> , <b>2002</b> , 3, 51-68	16.7	23
107	A GIS-based multi-criteria decision-making approach for seismic vulnerability assessment using quantifier-guided OWA operator: a case study of Tehran, Iran. <i>Annals of GIS</i> , <b>2015</b> , 21, 209-222	4.1	22
106	Process fault isolation based on transfer entropy algorithm. <i>ISA Transactions</i> , <b>2014</b> , 53, 230-40	5.5	21
105	Investigating the validity of conventional joint set clustering methods. <i>Engineering Geology</i> , <b>2011</b> , 118, 75-81	6	21
104	PEM Stochastic Modeling for MEMS Inertial Sensors in Conventional and Redundant IMUs. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 2019-2027	4	19
103	The application of multilayer perceptron neural network in volume of clay estimation: Case study of Shurijeh gas reservoir, Northeastern Iran. <i>Journal of Natural Gas Science and Engineering</i> , <b>2015</b> , 22, 119-131	4.6	18
102	Quantitative analysis of the clay minerals in the Shurijeh Reservoir Formation using combined X-ray analytical techniques. <i>Russian Geology and Geophysics</i> , <b>2016</b> , 57, 1048-1063	1	18
101	Short-term traffic flow forecasting: parametric and nonparametric approaches via emotional temporal difference learning. <i>Neural Computing and Applications</i> , <b>2013</b> , 23, 141-159	4.8	18
100	A reinforcement learning approach for waterflooding optimization in petroleum reservoirs. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 77, 98-116	7.2	18
99	Alleviating the cold-start problem of recommender systems using a new hybrid approach <b>2010</b> ,		16
98	Introducing adaptive neurofuzzy modeling with online learning method for prediction of time-varying solar and geomagnetic activity indices. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 8267-8277	7.8	16
97	LTV-MPC based path planning of an autonomous vehicle via convex optimization <b>2013</b> ,		15
96	Evidence theoretic protein fold classification based on the concept of hyperfold. <i>Mathematical Biosciences</i> , <b>2012</b> , 240, 148-60	3.9	15
95	Improve text classification accuracy based on classifier fusion methods <b>2007</b> ,		15
94	Swarm Clustering Based on Flowers Pollination by Artificial Bees. <i>Studies in Computational Intelligence</i> , <b>2006</b> , 191-202	0.8	14
93	Application of temporal difference learning rules in short-term traffic flow prediction. <i>Expert Systems</i> , <b>2015</b> , 32, 49-64	2.1	13
92	Control performance assessment based on sensor fusion techniques. <i>Control Engineering Practice</i> , <b>2016</b> , 49, 14-28	3.9	13

91	Distributed maximum likelihood estimation for flow and speed density prediction in distributed traffic detectors with Gaussian mixture model assumption. <i>IET Intelligent Transport Systems</i> , <b>2012</b> , 6, 215	2.4	12
90	Adaptive modeling of waterflooding process in oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 146, 702-713	4.4	12
89	Learning by abstraction: Hierarchical classification model using evidential theoretic approach and Bayesian ensemble model. <i>Neurocomputing</i> , <b>2014</b> , 130, 73-82	5.4	11
88	Skew redundant MEMS IMU calibration using a Kalman filter. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 105002	2	11
87	Survey on location information services for Vehicular Communication Networks. <i>Wireless Networks</i> , <b>2014</b> , 20, 1085-1105	2.5	11
86	Multisensor Data Integration and Fusion in Traffic Operations and Management. <i>Transportation Research Record</i> , <b>2012</b> , 2308, 27-36	1.7	11
85	Online monitoring of transit-time ultrasonic flowmeters based on fusion of optical observation. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2011</b> , 44, 1028-1037	4.6	11
84	Application of Fuzzy Classifier Fusion in Determining Productive Zones in Oil Wells. <i>Energy Exploration and Exploitation</i> , <b>2012</b> , 30, 403-415	2.1	11
83	A systematic approach for modeling of waterflooding process in the presence of geological uncertainties in oil reservoirs. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 111, 66-78	4	10
82	Demand satisfaction in supply chain management system using a full online optimal control method. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 77, 1401-1417	3.2	10
81	Feature-based fault detection of industrial gas turbines using neural networks. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2013</b> , 1340-1350	0.9	10
80	A Hybrid Approach to Predict Churn <b>2010</b> ,		10
79	Second-order EKF and Unscented Kalman Filter Fusion for Tracking Maneuvering Targets <b>2007</b> ,		10
78	Real-time management of the waterflooding process using proxy reservoir modeling and data fusion theory. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 339-354	4	9
77	Low-complexity control of hybrid systems using approximate multi-parametric MILP. <i>Automatica</i> , <b>2016</b> , 63, 292-301	5.7	9
76	Recursive spectral analysis of natural time series based on eigenvector matrix perturbation for online applications. <i>IET Signal Processing</i> , <b>2011</b> , 5, 515	1.7	9
75	Short-term traffic flow forecasting by mutual information and artificial neural networks <b>2012</b> ,		9
74	Real time adaptive non-linear estimator/predictor design for traffic systems with inadequate detectors. <i>IET Intelligent Transport Systems</i> , <b>2014</b> , 8, 308-321	2.4	8

73	Decentralized Fault Isolation by a Combination of Transfer Entropy and Classification Methods. <i>Chemical Engineering Communications</i> , <b>2015</b> , 202, 1131-1144	2.2	7
72	Auto-Calibration and Fault Detection and Isolation of Skewed Redundant Accelerometers in Measurement While Drilling Systems. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7
71	Traffic Flow Prediction Using MI Algorithm and Considering Noisy and Data Loss Conditions: An Application to Minnesota Traffic Flow Prediction. <i>Promet - Traffic - Traffico</i> , <b>2014</b> , 26, 393-403	1.2	7
70	Novel dynamic model for aerated shaking bioreactors. <i>Biotechnology and Applied Biochemistry</i> , <b>2011</b> , 58, 128-137	2.8	7
69	A new expertness index for assessment of secondary structure prediction engines. <i>Computational Biology and Chemistry</i> , <b>2007</b> , 31, 44-7	3.6	7
68	A new algorithm for general asynchronous sensor bias estimation in multisensor-multitarget systems <b>2007</b> ,		7
67	A novel detection and navigation approach based on OWA fusion method. <i>Sensor Review</i> , <b>2011</b> , 31, 328-340	3.4	6
66	Online Multi-step Ahead Prediction of Time-Varying Solar and Geomagnetic Activity Indices via Adaptive Neurofuzzy Modeling and Recursive Spectral Analysis. <i>Solar Physics</i> , <b>2011</b> , 272, 189-213	2.6	6
65	Reducing the Bullwhip effect in a supply chain network by application of optimal control theory. <i>RAIRO - Operations Research</i> , <b>2018</b> , 52, 1377-1396	2.2	6
64	Protein Secondary Structure Classifiers Fusion Using OWA. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 338-345	3.45	6
63	Learning to rank: new approach with the layered multi-population genetic programming on click-through features. <i>Genetic Programming and Evolvable Machines</i> , <b>2016</b> , 17, 203-230	2	5
62	irBlogs: A standard collection for studying Persian bloggers. <i>Computers in Human Behavior</i> , <b>2016</b> , 57, 195-207	7.7	5
61	Emotional temporal difference Q-learning signals in multi-agent system cooperation: real case studies. <i>IET Intelligent Transport Systems</i> , <b>2013</b> , 7, 315-326	2.4	5
60	Estimation of free flow speed and critical density in a segmented freeway using missing data and Monte Carlo-based expectation maximisation algorithm. <i>IET Control Theory and Applications</i> , <b>2011</b> , 5, 123	2.5	5
59	Leak Detection in Transportation Pipelines Using Feature Extraction and KNN Classification <b>2009</b> ,		5
58	Architecture design of an intelligent information fusion agent for information retrieval from dynamic environments <b>2007</b> ,		5
57	Sensor fusion by pseudo information measure: a mobile robot application. <i>ISA Transactions</i> , <b>2002</b> , 41, 283-301	5.5	5
56	Improved Pose Estimation for Mobile Robots by Fusion of Odometry Data and Environment Map. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2003</b> , 36, 89-108	2.9	5

55	Activity Recognition In Smart Home Using Weighted Dempster-Shafer Theory. <i>International Journal of Smart Home</i> , <b>2013</b> , 7, 23-34	0	5
54	Integration of data fusion and reinforcement learning techniques for the rank-aggregation problem. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2016</b> , 7, 1131-1145	3.8	4
53	A new predictive motion control of a planar vehicle under uncertainty via convex optimization. <i>International Journal of Control, Automation and Systems</i> , <b>2017</b> , 15, 129-137	2.9	4
52	Multi criteria decision making (MCDM): A modified partial order theory (POT) approach <b>2011</b> ,		4
51	Identification and model predictive control of continuous stirred tank reactor based on artificial neural networks <b>2011</b> ,		4
50	Multiphase Pipeline Leak Detection Based on Fuzzy Classification <b>2009</b> ,		4
49	GPS/INS integration using nonlinear blending filters <b>2007</b> ,		4
48	Genetic Algorithm Based Parameter Tuning of Adaptive LQR-Repetitive Controllers with Application to Uninterruptible Power Supply Systems. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 583-593 <sup>0.9</sup>		4
47	Fusing Unscented Kalman Filter to Detect and Isolate Sensor faults in DC Microgrids with CPLs. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	4
46	Mixed H/Passivity controller design through LMI approach applicable for waterflooding optimization in the presence of geological uncertainty. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 142, 107055	4	4
45	Applications of Haptic Technology, Virtual Reality, and Artificial Intelligence in Medical Training During the COVID-19 Pandemic. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 612949	2.8	4
44	CF-Rank: Learning to rank by classifier fusion on click-through data. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 8597-8608	7.8	3
43	Learning to rank with click-through features in a reinforcement learning framework. <i>International Journal of Web Information Systems</i> , <b>2016</b> , 12, 448-476	0.9	3
42	Predictive models and detection methods applicable in water detection framework for industrial electric arc furnaces. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 128, 285-300	4	3
41	Shared Situation Awareness System Architecture for Network Centric Environment Decision Making <b>2010</b> ,		3
40	Design of robust sub-optimal nonlinear H <sub>∞</sub> controllers with some applications. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2007</b> , 12, 1053-1067	3.7	3
39	A New Stabilizing Control Law with Respect to a Control Lyapunov Function and Construction of Control Lyapunov Function for Particular Nonaffine Nonlinear Systems. <i>Journal of Dynamical and Control Systems</i> , <b>2007</b> , 13, 563-576	1.1	3
38	Temporal-aware rate allocation in mission-oriented WSNs with sum-rate demand guarantee. <i>Computer Communications</i> , <b>2015</b> , 59, 52-66	5.1	2

37	An image segmentation based algorithm for imaging of slow slip earthquakes. <i>Geodesy and Geodynamics</i> , <b>2018</b> , 9, 252-261	1.8	2
36	Cooperative control of networked autonomous vehicles using convex optimization <b>2015</b> ,		2
35	Using data fusion for scoring reliability of protein-protein interactions. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2014</b> , 12, 1450014	1	2
34	Adaptive generalized predictive control and model reference adaptive control for CSTR Reactor <b>2010</b> ,		2
33	A new approach for text feature selection based on OWA operator <b>2010</b> ,		2
32	Fuzzy image fusion application in detecting coronary layers in IVUS pictures <b>2008</b> ,		2
31	Self-tuning Based Fuzzy PID Controllers: Application to Control of Nonlinear HVAC Systems. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 437-442	0.9	2
30	Cyber Attack Estimation of Nonlinear DC Microgrids with Noisy Measurements: Spherical Simplex Radial CKF Approach <b>2021</b> ,		2
29	Adaptation of Personality-Based Decision Making to Crowd Behavior Simulations. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 385-389	0.9	2
28	Pedestrian Detection Using Image Fusion and Stereo Vision in Autonomous Vehicles <b>2018</b> ,		2
27	A data fusion approach for multi-camera based visual servoing <b>2010</b> ,		1
26	The traffic condition likelihood extraction using incomplete observation in distributed traffic loop detectors <b>2011</b> ,		1
25	Real Data Testing of Model Parameter Estimation Methods for Macroscopic Traffic Flow Model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 419-424		1
24	Robustness Assessment of Intelligent Information Fusion Techniques in Navigation Systems Encountering Satellite Outage <b>2007</b> ,		1
23	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning <b>2007</b> ,		1
22	A Modified LOLIMOT Algorithm for Nonlinear Estimation Fusion <b>2007</b> ,		1
21	Complexity and Size Analysis of Hybrid System Modeling with Mixed Logical Dynamical Approach <b>2006</b> ,		1
20	Design of a Robust Sliding Mode Fuzzy Controller for Nonlinear HVAC Systems. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 984-989	0.9	1

19	Location-aware hazardous litter management for smart emergency governance in urban eco-cyber-physical systems.. <i>Multimedia Tools and Applications</i> , <b>2022</b> , 1-30	2.5	1
18	Stability Analysis of Smooth Positive Fuzzy Systems <b>2020</b> ,		1
17	Sensing Structure for Blind Spot Detection System in Vehicles <b>2019</b> ,		1
16	Robust switching signal estimation for a class of uncertain nonlinear switched systems. <i>International Journal of Control</i> , <b>2019</b> , 92, 1094-1102	1.5	1
15	Metal-oxide-semiconductor Sensors Modeling Using Ordered Weighted Averaging (OWA) Operators in Electronic Nose. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 184, 109932	4.6	1
14	State Estimation Fusion for Linear Microgrids over an Unreliable Network. <i>Energies</i> , <b>2022</b> , 15, 2288	3.1	1
13	Heats and input variables selection for designing a water detection framework applicable to industrial electric arc furnaces. <i>Canadian Journal of Chemical Engineering</i> , <b>2020</b> , 98, 2096-2108	2.3	0
12	. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3759-3768	4.3	0
11	Integral backstepping Lyapunov redesign control of uncertain nonlinear systems. <i>IET Control Theory and Applications</i> , <b>2022</b> , 16, 330-339	2.5	0
10	DATA-BASED MODELLING OF NONLINEAR SYSTEMS USING A MODIFIED LOLIMOT ALGORITHM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 25-30		
9	Improvement of Low Frequency Oscillation Damping in Power Systems via an Adaptive Critic Based NeuroFuzzy Controller. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 559-565	0.9	
8	Knowledgebase approximation using association rule aggregation. <i>International Journal of Data Science and Analytics</i> , <b>2022</b> , 13, 225	2	
7	Distributed Data Clustering Based on Flowers Pollination by Artificial Bees <b>2005</b> , 959-966		
6	Applying Data Fusion in a Rational Decision Making with Emotional Regulation <b>2007</b> , 320-331		
5	Application of Naturalistic Decision Making to Emergency Evacuation Simulations. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 14-25	0.9	
4	Active Networks and Computational Intelligence. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 128-134	0.9	
3	Application of OWA Based Classifier Fusion in Diagnosis and Treatment offering for Female Urinary Incontinence. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 433-442	0.9	
2	A Web 2.0 Approach for Organizing Search Results Using Wikipedia. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 215-225	0.9	



- 1 Blind Spot Detection System in Vehicles Using Fusion of Radar Detections and Camera Verification. *International Journal of Intelligent Transportation Systems Research*, **2021**, 19, 389-404 1.4